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54 **Acoustic insulator for a microphone in a telephone handset.**

57 An apparatus to isolate a microphone from the speaker audio of a telephone handset, preventing feedback howl. The acoustic insulator consists of a single piece of pliable material that has a smaller diameter element (104) that extends through the handset housing. A hollow passage (102) extends the length of the insulator. The microphone (101) is inserted into the insulator in the larger diameter element (103). The insulator is held in the housing by overlapping ridges (105) encircling the outside of the larger element (103).



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EUROPEAN SEARCH REPORT

Application Number

EP 91 30 0357

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X A	US-A-4 263 484 (HISATSUNE ET AL) * the whole document * ---	1,4,5,9 8	H04M1/20 H04M1/03
X	WO-A-8 904 106 (ACS COMMUNICATIONS INC) * page 4, line 20 - page 7, line 24 * ---	1,3,4	
X	PATENT ABSTRACTS OF JAPAN vol. 11, no. 73 (E-486)5 March 1987 & JP-A-61 230 495 (MATSUSHITA ELECTRIC IND CO) * abstract * ---	1,3,4	
Y	PATENT ABSTRACTS OF JAPAN vol. 12, no. 9 (E-572)12 January 1988 & JP-A-62 171 255 (MATSUSHITA ELECTRIC IND CO) * abstract * ---	1-9	
Y	PATENT ABSTRACTS OF JAPAN vol. 12, no. 65 (E-586)27 February 1988 & JP-A-62 209 952 (TAMURA ELECTRIC WORKS) * abstract * ---	1-9	
A	EP-A-0 161 735 (NORTHERN TELECOM LTD) * page 1 - page 5; figures 1-6 * ---	1,3-5, 7-9	TECHNICAL FIELDS SEARCHED (Int. Cl.5) H04M H04R
A	US-A-4 584 702 (WALKER) * column 2, line 30 - column 4, line 11; figures 1-8 * ---	1,3-5,9	
A	PATENT ABSTRACTS OF JAPAN vol. 6, no. 230 (E-142)(1108) 16 November 1982 & JP-A-57 131 195 (AIHON K.K.) * abstract * -----	1,3,4	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 NOVEMBER 1992	Examiner DELANGUE P.C.J.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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